

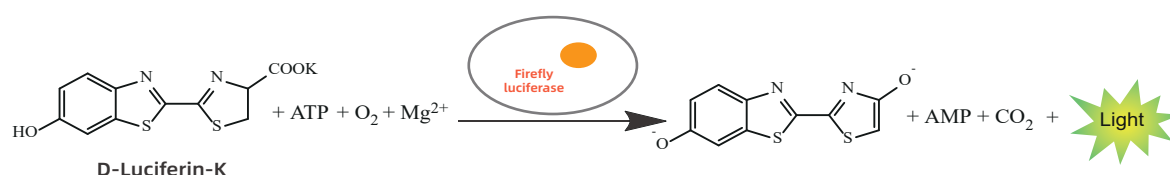
KeyTec® D-LUCIFERIN POTASSIUM SALT



Introduction

VKEY-BIO offers an exceptional quality D-luciferin potassium salt, known as KeyTec® D-luciferin potassium salt. This product exhibits outstanding chemical purity, superior luminescent performance, and excellent solubility, making it ideal for a wide range of applications.

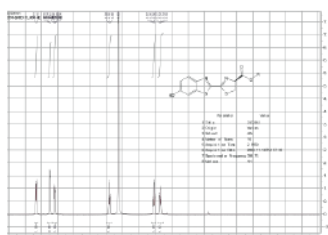
KeyTec® D-luciferin potassium salt possesses excellent water solubility and lipid solubility, making it the preferred substrate for firefly luciferase assays. In the presence of ATP, Mg²⁺, and O₂, firefly luciferase catalyzes the oxidative decarboxylation of D-luciferin, leading to the simultaneous production of 560 nm luminescence. This substrate offers convenient detection and precise quantification, making it widely used in life science research, particularly in areas such as small animal live imaging, reporter gene detection, and cell viability detection.



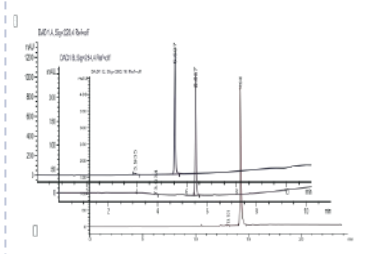
Product Advantages

Each batch of KeyTec® D-luciferin potassium salt undergoes rigorous quality control tests, including NMR, MS, HPLC, chiral analysis, solubility test, and luminescence test, ensuring exceptional chemical and optical purity. It surpasses competition with its comprehensive testing, guaranteeing reliable and high-quality results.

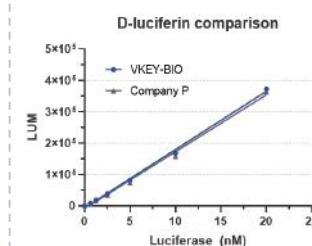
1 H NMR (300 MHz)



HPLC



Luminescence

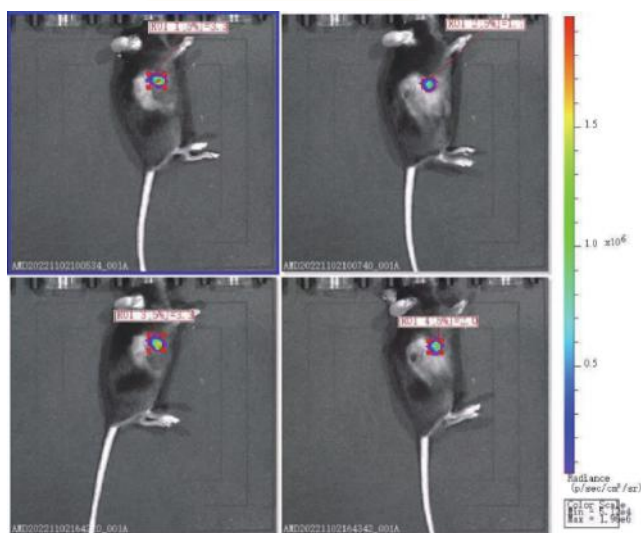


Product Details

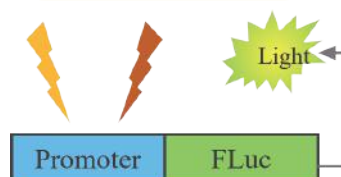
CAS	115144-35-9	Solubility	42 mg/mL in ddH ₂ O at 25 °C
MW	318.42 g/mol	Biological Activity	Superior luminescent performance
Physical Characteristics	Pale yellow powder	Purity (HPLC)	≥ 99 %
Storage	-20 °C	Chiral Purity	99 % e.e.

Application

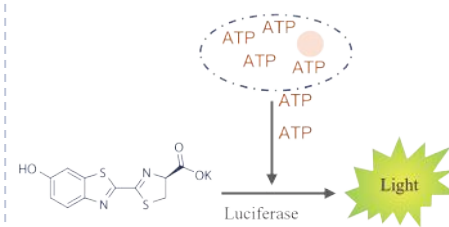
Small animal live imaging



Reporter gene detection



Cell viability detection



Product List

Brand	CAT	Description	Size
VKEY-BIO	A2001001N	KeyTec® D-LUCIFERIN POTASSIUM SALT	0.1 g
VKEY-BIO	A2001002N	KeyTec® D-LUCIFERIN POTASSIUM SALT	1.0 g